Notice of Allowability	Application No.	Applicant(s)
	10/696,291	CHIEN-HUA HUANG ET AL.
	Examiner	Art Unit
	Andrew Q. Tran	2824
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS (herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGOT (See 37 CFR 1.313) 1. This communication is responsive to 2. The allowed claim(s) is/are 1-35. 3. The drawings filed on are accepted by the Examiner 4. Acknowledgment is made of a claim for foreign priority un a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have	ars on the cover sheet with (OR REMAINS) CLOSED is or other appropriate comming GHTS. This application is and MPEP 1308. der 35 U.S.C. § 119(a)-(d) been received.	ith the correspondence address in this application. If not included unication will be mailed in due course. THIS subject to withdrawal from issue at the initiative or (f).
3. Copies of the certified copies of the priority doc International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" of noted below. Failure to timely comply will result in ABANDONMITHIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to file	
5. A SUBSTITUTE OATH OR DECLARATION must be submining INFORMAL PATENT APPLICATION (PTO-152) which give	tted. Note the attached EX s reason(s) why the oath o	AMINER'S AMENDMENT or NOTICE OF r declaration is deficient.
 6. ○ CORRECTED DRAWINGS (as "replacement sheets") must (a) ☐ including changes required by the Notice of Draftsperson 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ○ including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.6 each sheet. Replacement sheet(s) should be labeled as such in the paper No./Mail Date 7. ☐ DEPOSIT OF and/or INFORMATION about the depose attached Examiner's comment regarding REQUIREMENT F 	Amendment / Comment on the header according to 37 CF	r in the Office action of the drawings in the front (not the back) of R 1.121(d). ERIAL must be submitted. Note the
 Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No./Mail Date 10/29/2003 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material 	6. ☐ Interview S Paper No 3), 7. ☑ Examiner's	formal Patent Application (PTO-152) ummary (PTO-413), /Mail Date Amendment/Comment Statement of Reasons for Allowance
		ANDREW Q.TRAN

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EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

In the title:

Substitute the current title with the following:

--Circuit and method for self-refresh of DRAM cells through monitoring of cell leakage currents--.

In the drawings:

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Label Fig. 1 as --PRIOR ART--.
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In the claims:

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In claim 1, line 2, change "adapted to generate" to --generating--;
line 4, change "adapted to generate" to --generating--;
line 7, change "adapted to transform" to --transforming--;
In claim 10, line 1, after "second", insert --current--;
In claim 14, line 2, change "adapted to accumulate" to --accumulating--;
line 3, change "adapted to generate" to --generating--;
line 3, delete "useful";
line 5, change "adapted to generate" to --generating--;
In claim 16, line 2, change "leakabe" to --leakage--;
In claim 24, line 1, after "second", insert --current--;
In claim 28, line 3, delete "useful";
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In claim 30, line 2, before "third", add --a--;

In claim 35, line 2, delete "capable of" (both occurrence);

line 6, change "adapted to generate" to --generating--;

line 7, change "a" to --the--; and

lines 8-9, change "adapted to transform" to --transforming--.

The above changes have been made to render the claims clearer, to overcome antecedent basis deficiencies, and to correct typographical and grammatical errors.

REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance:

The prior art fails to teach a memory cell self-refresh bias generator comprising a memory cell leakage current generator, and a converter coupled to the current generator for generating an output bias, as required by independent apparatus claims 1 and 35. The prior art further fails to teach a memory cell self-refresh pulse generator comprising a memory cell leakage current bias generator for determining a self-refresh period, and an oscillator coupled to the bias generator, as required by independent apparatus claim 14 and corresponding method claim 28.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andrew Q. Tran whose telephone number is (571) 272-1885. The examiner can normally be reached on Mon - Fri 8:30 AM - 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard T. Elms can be reached on (571) 272-1869. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Andrew Q. Tran Primary Examiner Art Unit 2824

at September 19, 2004